End Station Bleed-up and Recovery Procedure Check list Bin Dong, Jeff Keister Doc. Rev. 3/17/2006

Bleed-up Procedure

	0) If valve 8 is installed: Close valve 8. Open extension port pumping valve if desired
	1) Verify that the end station turbo gate valve is open
	2) Close valve 6 3) Close valve 7
	4) Close the turbo foreline valve
Ц	5) Turn off turbo by pushing turbo controller start/stop button (at lower right corner)
	6) Wait 10 minutes for turbo to spin down
	7) Loosen hinged window on end station
	8) Open the dewar vent valve and adjust to lower flow rate9) Connect dewar vent hose to the turbo vent valve
	10) Slowly bleed-up end station (30 seconds per decade) by controlling
	turbo vent valve. Simultaneously, monitor the MKS pressure gauges: End Station for progress and DPS Section for leaks (stop if any leak is found!)
	11) Once 100 Torr is reached in the end station, fully open the turbo vent
_	valve
	12) Wait for the end station to fully vent and hinged window to open13) Close the turbo vent valve
	14) Close the dewar vent valve and stow dewar vent hose
Recovery Procedure	
	0) Verify that valve 8 is closed (if equipped)
	1) Verify that the end station turbo gate valve is open
	2) Verify that valve 6 and 7 controls are in closed state3) Verify that the turbo vent valve is closed
	4) Close and tighten hinged window
	5) Open turbo foreline valve slowly until it is fully open, while monitoring
	end station pressure drop to below 1 Torr 6) Start turbo pump using turbo controller start/stop button
	7) Wait until end station pressure is 1.8x10 ⁻⁶ Torr or lower (typically 20
	minutes) 8) Poset valve 7 central interlocks (ES pressure and turbe speed limits are
	8) Reset valve 7 control interlocks (ES pressure and turbo speed limits are typically faulted after the bleed-up)
	9) Open valve 7
	10) Verify that the upstream (DPS) pressure is below 2x10 ⁻⁶ Torr 11) Open valve 6